Jan Delaval
Please!
Thanks!

Access DB# 85290

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Josephine Young Examiner #: 79813 Date: 1/27/03
Art Unit: 1623 Phone Number 30[illegible] 605-1201 Serial Number: 09/914,596
Mail Box and Bldg/Room Location: 8D04 Results Format Preferred (circle): PAPER DISK E-MAIL
8B19

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: 2'-Substituted RNA preparation

Inventors (please provide full names): REESE, Colin Bernard; et al
SONG, Qiaolin

Earliest Priority Filing Date: 3/19/1999

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

Attached: 1) Bib Sheet; 2) Assignment Info; 3) Pending Claim Set

Please search claim 1

(part of reaction of $Al(OR)_3$ as nucleophile to deliver OOR)

Thanks!

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 – 703-308-4498
jan.delaval@uspto.gov

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JAN 28 2003
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Date Searcher Picked Up: 2/4/03
Date Completed: 2/4/03
Searcher Prep & Review Time:
Clerical Prep Time: 20
Online Time: + 7x

Type of Search

NA Sequence (#)
AA Sequence (#)
Structure (#) ✓
Bibliographic
Litigation
Fulltext
Patent Family
Other

Vendors and cost where applicable

STN ✓
Dialog
Questel/Orbit
Dr.Link
Lexis/Nexis
Sequence Systems
WWW/Internet
Other (specify)

PTO-1590 (8-01)

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FILE 'REGISTRY' ENTERED AT 12:33:15 ON 04 FEB 2003
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    3 FEB 2003  HIGHEST RN 485316-86-7
DICTIONARY FILE UPDATES:   3 FEB 2003  HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d sta que l29
L23             STR
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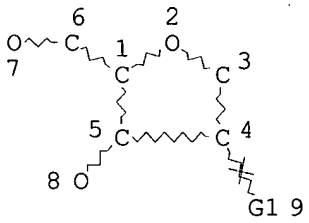


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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   9

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L27             STR
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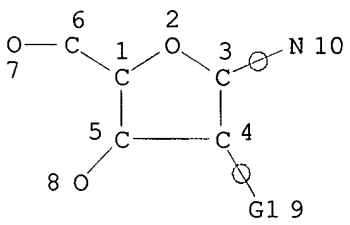


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NODE ATTRIBUTES:
CONNECT IS M3  RC AT   3
DEFAULT MLEVEL IS ATOM
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Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
ian.delaval@uspto.gov

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
L29 2053 SEA FILE=REGISTRY SUB=L25 SSS FUL L27

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SEARCH TIME: 00.00.01

=> d sta que l46
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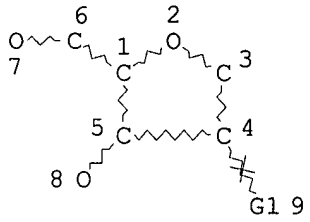

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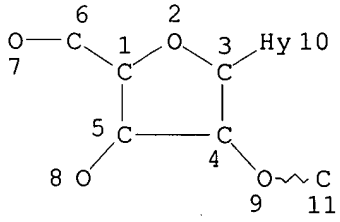

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DEFAULT ECLEVEL IS LIMITED
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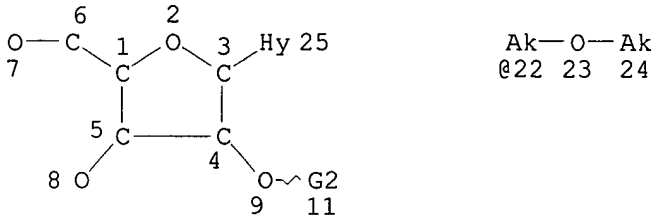
L41 STR



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CONNECT IS M1 RC AT 7
CONNECT IS M1 RC AT 8
CONNECT IS M1 RC AT 25
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M1 N AT 25

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
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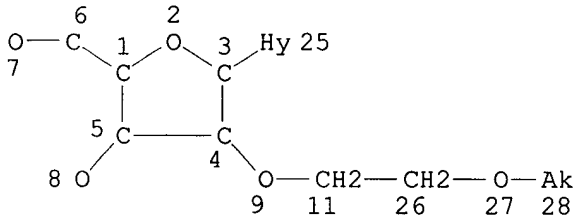
L43 STR



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CONNECT IS M1 RC AT 8
CONNECT IS M1 RC AT 25
CONNECT IS E1 RC AT 28
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M1 N AT 25

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L44 171 SEA FILE=REGISTRY SUB=L42 SSS FUL L43
L45 2 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND C12H19N3O6
L46 169 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT L45

=> d his

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SET COST OFF

FILE 'HCAPLUS' ENTERED AT 10:47:43 ON 04 FEB 2003
E WO2000-GB965/AP,PRN

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L1            1 S E3,E4
                E GB99-6328/AP,PRN
L2            1 S E4
L3            1 S L1,L2
                E REESE C/AU
L4          107 S E3,E4
                E REESE COLIN/AU
L5          225 S E3-E5
                E SONG Q/AU
L6          145 S E3-E14
                E SONG QUAN/AU
L7           43 S E3,E16,E17
                E AVECIA/PA,CS
L8          168 S E3-E44
                SEL RN L3

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L9            6 S E1-E6

     FILE 'HCAPLUS' ENTERED AT 10:51:01 ON 04 FEB 2003
L10         663 S L4-L8
L11           1 S L10 AND L3
L12         662 S L10 NOT L11

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                SET SMARTSELECT ON
L13          SEL L12 1- RN :    5130 TERMS
                SET SMARTSELECT OFF

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L14         5782 S L13
L15           71 S L14 AND AL/ELS
L16           71 S L14 AND ?ALUMIN?/CNS
L17           71 S L15,L16
L18            2 S L17 AND (AL OR AL2O3)/MF
L19               STR
L20           50 S L19
L21               STR L19
L22           50 S L21
L23               STR L21
L24           50 S L23
L25       119863 S L23 FUL
L26               STR L23
L27               STR L26
L28           50 S L27 SAM SUB=L25
L29         2053 S L27 FUL SUB=L25
                SAV L29 YOUNG914/A
L30               STR L19
L31           50 S L30 SAM SUB=L25
L32        16852 S L30 FUL SUB=L25
                SAV TEMP L32 YOUNG914A/A
L33               STR L30
L34           50 S L33 SAM SUB=L32
L35           31 S L33 CSS SAM SUB=L32
L36         3283 S L33 FUL SUB=L32
                SAV L36 YOUNG914B/A TEMP
                E AL/ELS
L37        67894 S E3 AND O/ELS

     FILE 'HCAPLUS' ENTERED AT 11:59:29 ON 04 FEB 2003
L38         1532 S L29
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L39             STR L33
L40           50 S L39 SAM SUB=L32
L41             STR L39
L42        16852 S L41 FUL SUB=L32
L43             STR L41
L44          171 S L43 FUL SUB=L42
                SAV L44 YOUNG914C/A
L45            2 S L44 AND C12H19N3O6
L46          169 S L44 NOT L45

     FILE 'HCAPLUS' ENTERED AT 12:07:00 ON 04 FEB 2003
L47            4 S L45
L48          226 S L46
L49            4 S L38 AND L47
L50          192 S L38 AND L48
L51            2 S L49,L50 AND (L18 OR AL OR ALUMIN? OR AL2O3)
L52            4 S L49,L51
L53           23 S L38 AND (L18 OR AL OR ALUMIN? OR AL2O3 OR "AL OR 3")
L54           21 S L38 AND (L18 OR AL OR ALUMIN? OR AL(1W)3)
L55            2 S L53 NOT L54

     FILE 'REGISTRY' ENTERED AT 12:11:09 ON 04 FEB 2003
L56        26592 S L37 AND C/ELS
L57           86 S L56 AND 3/ELC.SUB
L58         5104 S L56 AND 4/ELC.SUB
L59          275 S L58 NOT H/ELS
L60         4829 S L58 NOT L59
L61         4915 S L57,L60
L62          498 S L37 AND UNSPECIFIED

     FILE 'HCAPLUS' ENTERED AT 12:16:19 ON 04 FEB 2003
L63          227 S L44,L46
L64        16503 S L61
L65            0 S L63 AND L64
L66            2 S L63 AND (L18 OR AL OR ALUMIN? OR AL(1W)3 OR AL O# 3)
L67            4 S L52,L66
L68          470 S L42 AND L38
L69            0 S L68 AND L64
L70            5 S L68 AND (L18 OR AL OR ALUMIN? OR AL(1W)3 OR AL O# 3)
L71            3 S L70 NOT (FOX OR TAYLOR)/AB
L72            5 S L67,L71
L73            5 S L11,L72
L74            2 S L4-L8 AND L73
L75            5 S L73,L74
L76            3 S L68 AND L4-L8
L77            6 S L75,L76

     FILE 'REGISTRY' ENTERED AT 12:21:40 ON 04 FEB 2003
L78             STR L33
L79        25907 S L78 FUL SUB=L25
L80        25905 S L79 NOT L45
L81           91 S L46 AND L80
L82           15 S L81 AND 2/NR
L83            9 S L82 NOT P/ELS
L84            5 S L83 AND URID?
L85            2 S L84 AND (C12H18N2O7 OR C13H20N2O7)
L86            1 S URIDINE/CN

     FILE 'HCAPLUS' ENTERED AT 12:26:09 ON 04 FEB 2003
L87         5931 S L84 OR L86
L88          308 S L87 AND L38
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L89            3 S L88 AND L77
L90            2 S L88 AND (L64 OR AL OR ALUMIN? OR AL(1W)3 OR AL O# 3)
L91            6 S L77,L89,L90 AND L1-L8,L10-L12,L38,L47-L55,L63-L77,L87-L90
L92           21 S L38 AND (AL OR ALUMIN?)
L93            5 S L92 AND L68
L94            8 S L91,L93
L95            2 S L94 NOT L91
L96            6 S L91 AND L94
                 SEL HIT RN

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L97           33 S E1-E33
L98            0 S L97 AND AL/ELS
L99           15 S L97 AND L29

     FILE 'HCAPLUS' ENTERED AT 12:30:30 ON 04 FEB 2003
L100           6 S L52 OR L96
L101           6 S L100 OR L47
                 SEL HIT RN

     FILE 'REGISTRY' ENTERED AT 12:30:52 ON 04 FEB 2003
L102          33 S E34-E66
L103           2 S L102 AND L45
L104          15 S L102 AND L29
L105           3 S L102 AND L85,L86
L106          13 S L102 NOT L103-L105

     FILE 'REGISTRY' ENTERED AT 12:33:15 ON 04 FEB 2003

=> fil hcaplus
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FILE COVERS 1907 - 4 Feb 2003  VOL 138 ISS 6
FILE LAST UPDATED: 3 Feb 2003  (20030203/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> d l101 all hitstr tot

L101 ANSWER 1 OF 6  HCAPLUS  COPYRIGHT 2003 ACS
AN   2002:696649  HCAPLUS
DN   137:246565
TI   Antisense oligonucleotides for treating diseases associated with
     interleukin-5 signal transduction
IN   Dean, Nicholas M.; Karras, James G.; McKay, Robert; Manoharan, Muthiah
PA   USA
SO   U.S. Pat. Appl. Publ., 77 pp., Cont.-in-part of Appl. No. PCT/US00/07318.
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CODEN: USXXCO
DT Patent
LA English
IC ICM A61K048-00
ICS C12Q001-68; C07H021-04
NCL 514044000
CC 15-5 (Immunochemistry)
Section cross-reference(s): 3, 63
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002128216	A1	20020912	US 2001-800629	20010307
	US 6136603	A	20001024	US 1999-280799	19990326
	WO 2000058512	A1	20001005	WO 2000-US7318	20000317

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1999-280799 A2 19990326
WO 2000-US7318 A2 20000317

AB Compns. and methods are provided for antisense modulation of interleukin-5 signal transduction. Antisense compds., particularly antisense oligonucleotides, targeted to nucleic acids encoding interleukin-5 and interleukin-5 receptor .alpha. are preferred. Methods of using these compds. for modulation of interleukin-5 signal transduction and for treatment of diseases, particularly eosinophilic syndrome, asthma and other reactive airway diseases, those that assocd. with interleukin-5 signal transduction are also provided.

ST antisense oligonucleotide interleukin 5 signal transduction asthma eosinophilic syndrome; airway disease IL5 receptor alpha antisense oligonucleotide phosphorothioate

IT Diagnosis
(agents; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Animal
Animal cell
Animal tissue
Apoptosis
Asthma
Human
Mammalia
Signal transduction, biological
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT RNA
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Antisense oligonucleotides
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Interleukin 5
Interleukin 5 receptors
Nucleic acids

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Drug delivery systems
(carriers; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Drug delivery systems
(colloids; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Peptides, biological studies
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(conjugates, nucleic acid; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Test kits
(diagnostic; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Respiratory tract
(disease; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Eosinophil
(diseases, eosinophilic syndrome; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Protein sequences
(for interleukin-5 and Il-5 receptors of human and mouse)

IT DNA sequences
(for interleukin-5 of human and mouse)

IT cDNA sequences
(for interleukin-5 receptor .alpha.-subunits of human and mouse)

IT Peptides, biological studies
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fusion peptides, nucleic acid conjugates; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Drug delivery systems
(liqs., dispersions; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Carbohydrates, biological studies
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(moiety; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Bond
(phosphothioates; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Drug delivery systems
(pulmonary; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT Interleukin 5 receptors

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sol. .alpha.-chain; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT 458622-84-9 458622-85-0, Interleukin 5 (human gene IL5 precursor)
458622-86-1 458622-87-2 458622-88-3 458622-89-4
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT 283617-11-8P, ISIS 16999 299995-14-5P, ISIS 16096 299995-15-6P, ISIS 16097 299995-16-7P, ISIS 16098 299995-17-8P, ISIS 16099
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299995-28-1P, ISIS 21756 299995-32-7P, ISIS 21760 300425-30-3P, ISIS 21847 300425-31-4P, ISIS 21849 300425-32-5P, ISIS 21851
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459881-36-8P, ISIS 18017
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP
(Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(antisense oligonucleotides for treating interleukin-5 signal-assocd.
eosinophilic syndrome, asthma and other reactive airway diseases)

IT 93-97-0, Benzoic anhydride 108-24-7, Acetic anhydride 109-86-4,
2-Methoxyethanol 288-88-0, 1H-1,2,4-Triazole 1463-10-1,
5-Methyluridine 5536-17-4, 9-.beta.-D-Arabinofuranosyladenine
66304-01-6, Beaucage reagent 102691-36-1 **195253-09-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(antisense oligonucleotides for treating interleukin-5 signal-assocd.
eosinophilic syndrome, asthma and other reactive airway diseases)

IT 554-01-8P, 5-Methylcytosine 784-71-4P, 2'-Deoxy-2'-fluorouridine
838-07-3P, 5-Methyl-2'-deoxycytidine **3736-77-4P**,
2,2'-Anhydro-1-.beta.-D-arabinofuranosyluracil 10212-20-1P,
2'-Deoxy-2'-fluorocytidine 21679-12-9DP, 2-Fluorodeoxyadenosine,
amidites **22423-26-3P** 78842-13-4P, 2'-Deoxy-2'-fluoroguanosine
79896-97-2P, N6-Benzoyl-9-.beta.-D-arabinofuranosyladenine 136834-20-3P
163759-49-7P, 2'-O-Methoxyethyl-5-methyluridine
163759-50-0P 163759-94-2P 182495-98-3P
182496-00-0P 182496-01-1P 223777-16-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(antisense oligonucleotides for treating interleukin-5 signal-assocd.
eosinophilic syndrome, asthma and other reactive airway diseases)

IT 384422-60-0, GenBank D90205 384439-81-0, GenBank X12706 384449-46-1,
GenBank X61176 384487-55-2, GenBank M96652 384608-76-8, GenBank U18373
391535-37-8, GenBank M96651 392214-92-5, GenBank X06271 459235-20-2,
DNA (Mus musculus gene Il-5 plus flanks) 459235-21-3 459235-22-4
459235-23-5 459235-24-6
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP

(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence; antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

IT 459235-43-9 459235-44-0 459235-45-1 459235-46-2 459235-47-3
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459236-98-7 459236-99-8 459237-00-4 459237-01-5 459237-02-6
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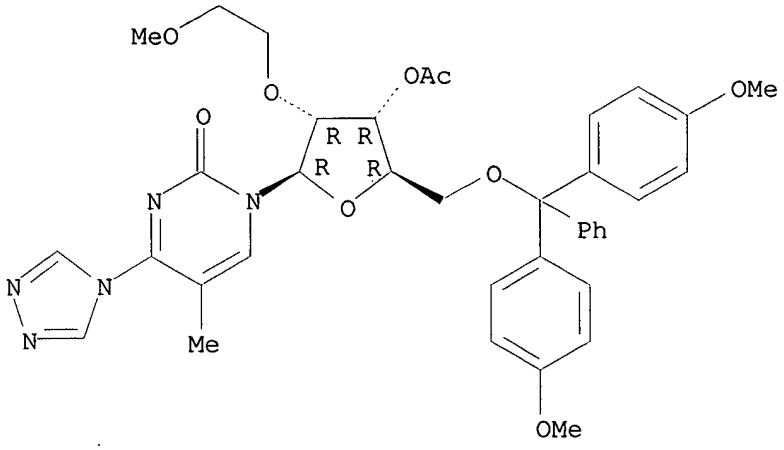
459237-28-6 459237-29-7 459237-30-0 459237-31-1 459237-32-2
459237-33-3 459237-34-4 459237-35-5 459237-42-4
RL: PRP (Properties)
(unclaimed nucleotide sequence; antisense oligonucleotides for treating diseases assocd. with interleukin-5 signal transduction)

IT **195253-09-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

RN 195253-09-9 HCAPLUS
CN 2(1H)-Pyrimidinone, 1-[3-O-acetyl-5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-O-(2-methoxyethyl)-.beta.-D-ribofuranosyl]-5-methyl-4-(4H-1,2,4-triazol-4-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

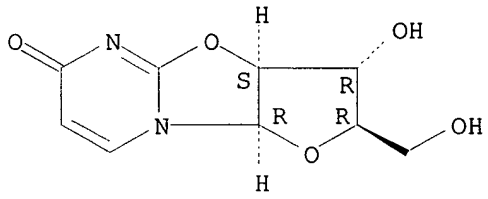


IT **3736-77-4P**, 2,2'-Anhydro-1-.beta.-D-arabinofuranosyluracil
22423-26-3P 163759-49-7P, 2'-O-Methoxyethyl-5-methyluridine **163759-50-0P 163759-94-2P**
182495-98-3P 182496-00-0P 182496-01-1P
223777-16-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(antisense oligonucleotides for treating interleukin-5 signal-assocd. eosinophilic syndrome, asthma and other reactive airway diseases)

RN 3736-77-4 HCAPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

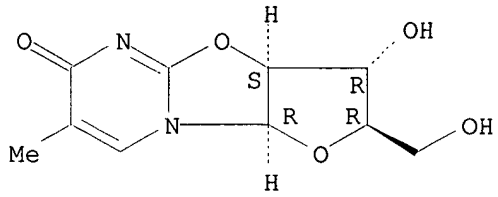
Absolute stereochemistry.



RN 22423-26-3 HCAPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-7-methyl-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

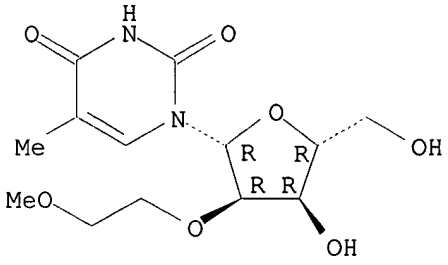
Absolute stereochemistry.



RN 163759-49-7 HCAPLUS

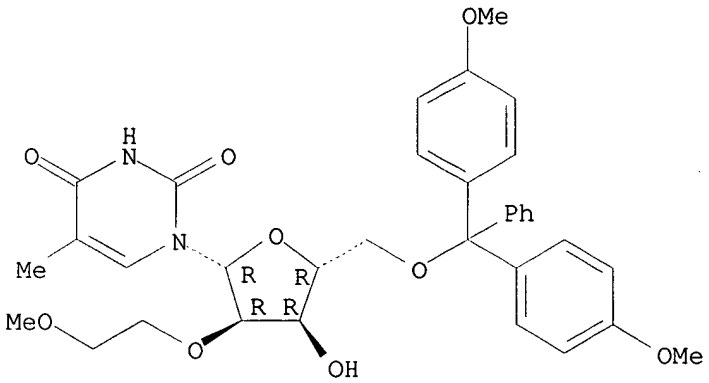
CN Uridine, 2'-O-(2-methoxyethyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



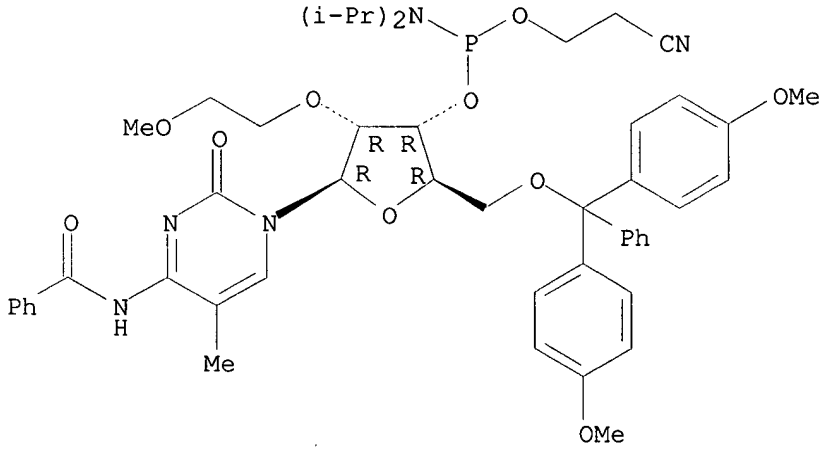
RN 163759-50-0 HCAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



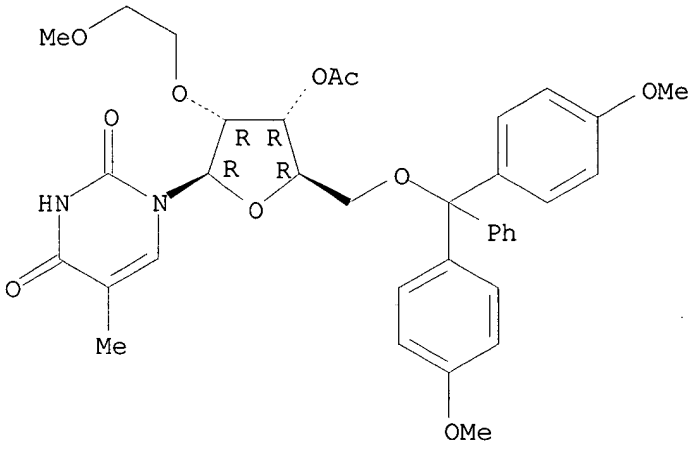
RN 163759-94-2 HCAPLUS
CN Cytidine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



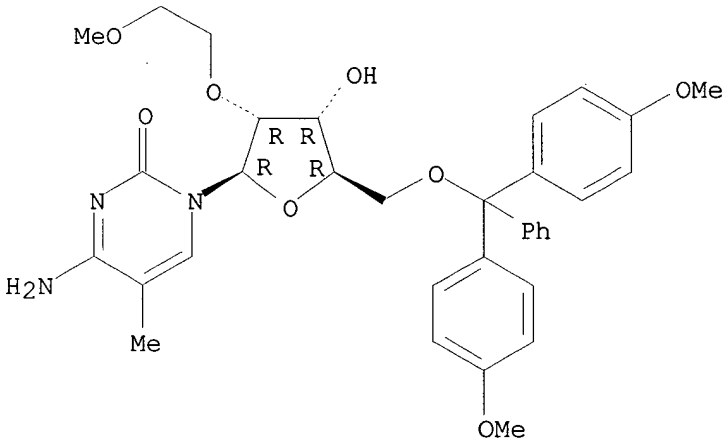
RN 182495-98-3 HCAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl-, 3'-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



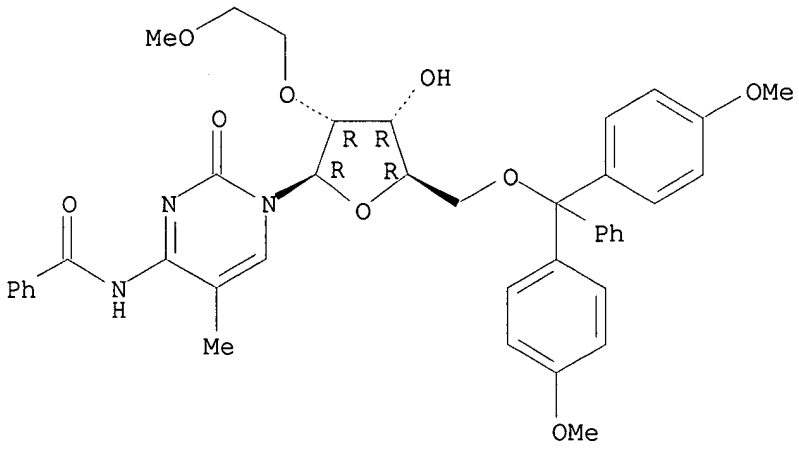
RN 182496-00-0 HCAPLUS
CN Cytidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



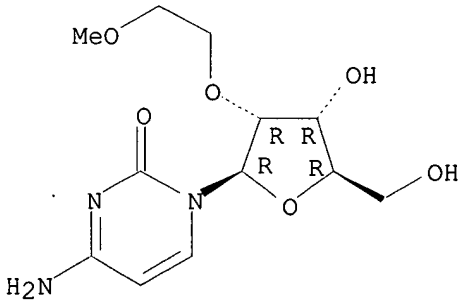
RN 182496-01-1 HCAPLUS
CN Cytidine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 223777-16-0 HCAPLUS
CN Cytidine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

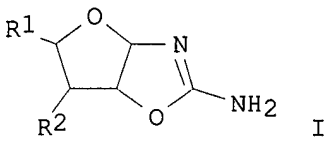
Absolute stereochemistry.



L101 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:72111 HCAPLUS
DN 136:102622
TI Processes for the preparation of 2,2'-anhydronucleic acid compound derivatives
IN Suzuki, Tsuneji; Nagase, Hiroshi; Kai, Akiyoshi; Iizuka, Hajime
PA Mitsui Chemicals, Inc., Japan
SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM C07H019-067
ICS C07D498-14
CC 33-9 (Carbohydrates)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002006296	A1	20020124	WO 2001-JP6263	20010719
	W: BR, CA, CN, IN, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	JP 2002167388	A2	20020611	JP 2001-220077	20010719
PRAI	JP 2000-219546	A	20000719		

OS CASREACT 136:102622; MARPAT 136:102622
GI



I

AB 2,2'-Anhydronucleic acid compd. derivs. useful as intermediates of drugs or agricultural chems. or the like can be prepd. from inexpensive starting compds. by reacting compd. I with compd. R3CXCYZR4 (wherein R1, R2, R3, R4, Q, X, Y and Z represent specific groups resp.). Further, L-cytidine derivs. useful as intermediates of drugs or agricultural chems. or the like can be prepd. by synthesizing a 2'-alkoxycytidine directly from a 2,2'-anhydrocytidine deriv.

ST anhydronucleic acid deriv prepn

IT Nucleic acids
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(anhydro; prepn. of 2,2'-anhydronucleic acid derivs.)

IT **389575-06-8P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 2,2'-anhydronucleic acid derivs.)

IT **389575-08-0P 389575-10-4P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 2,2'-anhydronucleic acid derivs.)

IT 109-86-4, 2-Methoxyethanol 109-88-6, Magnesium methoxide 4554-16-9, 2,3-Dibromopropionitrile **389575-03-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of 2,2'-anhydronucleic acid derivs.)

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

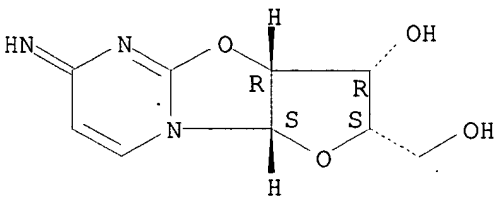
(1) Research Corporation; US 4104461 A 1978 HCAPLUS
(2) University Of Georgia Research Foundation Inc; JP 09508394 A 1995
(3) University Of Georgia Research Foundation Inc; CN 1143966 A 1995 HCAPLUS
(4) University Of Georgia Research Foundation Inc; RO 116623 B1 1995 HCAPLUS
(5) University Of Georgia Research Foundation Inc; CA 2182273 A 1995 HCAPLUS
(6) University Of Georgia Research Foundation Inc; US 5565438 A 1995 HCAPLUS
(7) University Of Georgia Research Foundation Inc; US 5567688 A 1995 HCAPLUS
(8) University Of Georgia Research Foundation Inc; US 5587362 A 1995 HCAPLUS
(9) University Of Georgia Research Foundation Inc; US 5808040 A 1995 HCAPLUS
(10) University Of Georgia Research Foundation Inc; EP 748330 A1 1995 HCAPLUS
(11) University Of Georgia Research Foundation Inc; HU 75514 A2 1995 HCAPLUS
(12) University Of Georgia Research Foundation Inc; BR 9506596 A 1995 HCAPLUS
(13) University Of Georgia Research Foundation Inc; AU 9517376 A1 1995 HCAPLUS
(14) University Of Georgia Research Foundation Inc; WO 9520595 A1 1995 HCAPLUS
(15) University Of Georgia Research Foundation Inc; FI 9602986 A 1995 HCAPLUS
(16) University Of Georgia Research Foundation Inc; NO 9603138 A 1995 HCAPLUS

IT **389575-06-8P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 2,2'-anhydronucleic acid derivs.)

RN 389575-06-8 HCAPLUS

CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidine-2-methanol, 2,3,3a,9a-tetrahydro-3-hydroxy-6-imino-, monohydrobromide, (2S,3R,3aR,9aS)- (9CI) (CA INDEX NAME)

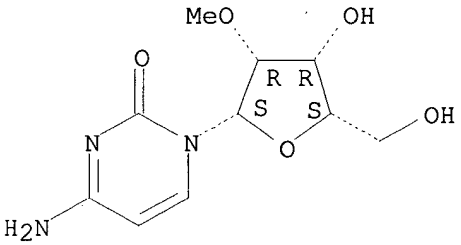
Absolute stereochemistry.



● HBr

IT **389575-08-0P 389575-10-4P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 2,2'-anhydronucleic acid derivs.)
RN 389575-08-0 HCAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-(2-O-methyl-.beta.-L-lyxofuranosyl)-, monohydrochloride (9CI) (CA INDEX NAME)

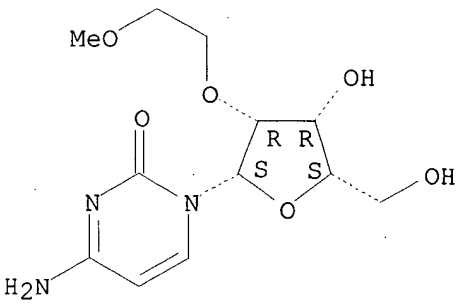
Absolute stereochemistry.



● HCl

RN 389575-10-4 HCAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-[2-O-(2-methoxyethyl)-.beta.-L-lyxofuranosyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

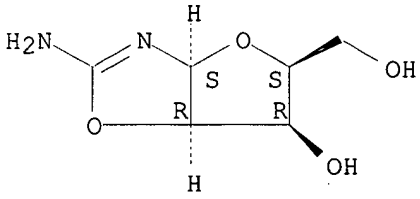


● HCl

IT **389575-03-5**
RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of 2,2'-anhydronucleic acid derivs.)
RN 389575-03-5 HCAPLUS
CN Furo[2,3-d]oxazole-5-methanol, 2-amino-3a,5,6,6a-tetrahydro-6-hydroxy-, (3aS,5S,6R,6aR)- (9CI) (CA INDEX NAME)

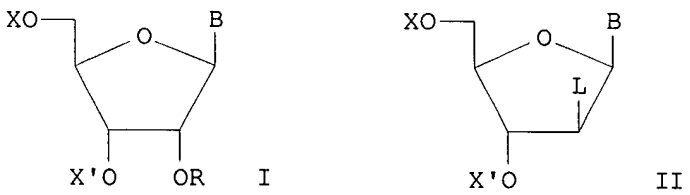
Absolute stereochemistry.



L101 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS
AN 2000:688247 HCAPLUS
DN 133:222975
TI '2'-Substituted RNA preparation
IN **Reese, Colin Bernard; Song, Quanlai**
PA **Avecia Limited, UK**
SO PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07H019-04
ICS C07H019-06; C07H021-00
CC 33-9 (Carbohydrates)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000056747	A1	20000928	WO 2000-GB965	20000315 <--
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1165584	A1	20020102	EP 2000-909534	20000315 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002540117	T2	20021126	JP 2000-606608	20000315 <--
PRAI	GB 1999-6328	A	19990319 <--		
	WO 2000-GB965	W	20000315 <--		

OS CASREACT 133:222975; MARPAT 133:222975
GI



I II

AB A process for the prepn. of RNA I wherein X, and X' are each independently H or a protecting group, B is a base; R is an alkyl, alkoxyalkyl, alkenyl, or alkynyl group, is provided, which comprises the reaction a compd. of formula II with a compd. of formula **Al**(OR)**3** wherein R is as defined above, under substantially anhyd. conditions and L is a leaving group. Thus, 2'-O-(2-methoxyethyl)cytidine was prepd. from uridine via etherification with **aluminum** and 2-methoxyethanol.

ST RNA methoxyethylcytidine etherification methoxyethanol prepn

IT Etherification
(prepn. of 2'-substituted RNA via etherification)

IT **3736-77-4P 223777-15-9P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 2'-substituted RNA via etherification)

IT **223777-16-0P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 2'-substituted RNA via etherification)

IT **58-96-8**, Uridine 102-09-0, Diphenyl carbonate 109-86-4, 2-Methoxyethanol.
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of 2'-substituted RNA via etherification)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

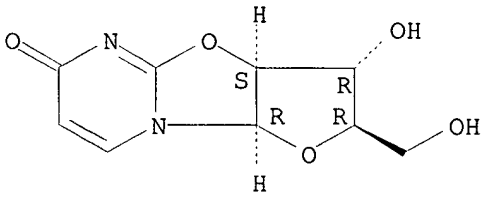
RE

(1) Isis Pharmaceuticals Inc; WO 9627606 A 1996 HCAPLUS
(2) McGee, D; NUCLEOSIDES & NUCLEOTIDES 1996, V15(11/12), P1797
(3) Ross, B; NUCLEOSIDES & NUCLEOTIDES 1997, V16(7-9), P1641 HCAPLUS

IT **3736-77-4P 223777-15-9P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 2'-substituted RNA via etherification)

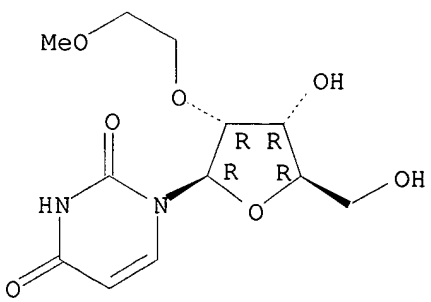
RN 3736-77-4 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



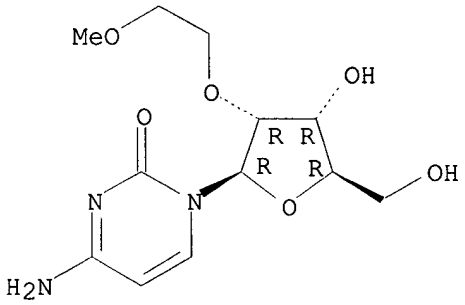
RN 223777-15-9 HCAPLUS
CN Uridine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



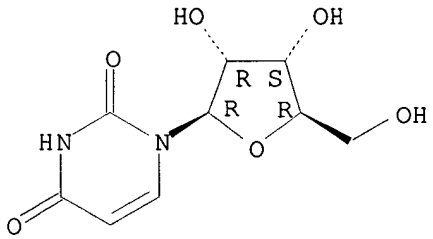
IT **223777-16-0P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 2'-substituted RNA via etherification)
RN 223777-16-0 HCAPLUS
CN Cytidine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **58-96-8**, Uridine
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of 2'-substituted RNA via etherification)
RN 58-96-8 HCAPLUS
CN Uridine (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



L101 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS
AN 1999:296184 HCAPLUS
DN 130:325337
TI Conversion of uridine into 2'-O(2-methoxyethyl)uridine and 2'-O-(2-methoxyethyl)cytidine
AU Legorburu, Urtzi; **Reese, Colin B.**; **Song, Quanlai**
CS Department of Chemistry, King's College London, London, WC2R 2LS, UK
SO Tetrahedron (1999), 55(17), 5635-5640
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science Ltd.
DT Journal
LA English
CC 33-9 (Carbohydrates)
AB Reaction between **aluminum** 2-methoxyethoxide and 2,2'-anhydro-1-.beta.-D-arabinofuranosyluracil gives 2'-O-(2-methoxyethyl)uridine in high yield. This compd. is converted into 2'-O-(2-methoxyethyl)cytidine in good yield.
ST methoxyethyl uridine prepn conversion cytidine
IT **58-96-8**, Uridine
RL: RCT (Reactant); RACT (Reactant or reagent)

(conversion of uridine into methoxyethyluridine and methoxyethylcytidine)

IT **3736-77-4P 223777-15-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(conversion of uridine into methoxyethyluridine and methoxyethylcytidine)

IT **223777-16-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(conversion of uridine into methoxyethyluridine and methoxyethylcytidine)

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD

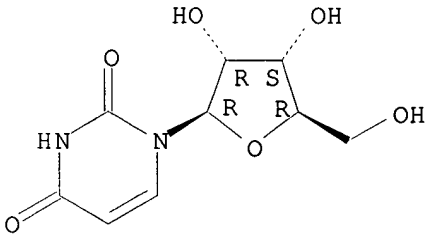
RE

(1) Altmann, K; Nucleosides and Nucleotides 1997, V16, P917 HCAPLUS
(2) Andrade, M; Nucleosides and Nucleotides 1997, V16, P1617 HCAPLUS
(3) Divakar, K; J Chem Soc Perkin Trans 1 1982, P1171 HCAPLUS
(4) Divakar, K; J Chem Soc Perkin Trans 1 1982, P1625 HCAPLUS
(5) Fathi, R; Tetrahedron Lett 1990, V31, P319 HCAPLUS
(6) Groetli, M; Tetrahedron 1998, V54, P5899
(7) Gura, T; Science 1995, V270, P575 HCAPLUS
(8) Hampton, A; Biochemistry 1966, V5, P2076 HCAPLUS
(9) Martin, P; Helv Chim Acta 1995, V78, P486 HCAPLUS
(10) McGee, D; Abstracts of American Chemical Society National Meeting Division of Organic Chemistry 1996
(11) Miah, A; J Chem Soc Chem Commun 1997, P407 HCAPLUS
(12) Miah, A; J Chem Soc Perkin Trans 1 1998, P3277 HCAPLUS
(13) Miah, A; Nucleosides and Nucleotides 1997, V16, P53 HCAPLUS
(14) Reese, C; J Chem Soc Perkin Trans 1 1984, P1263 HCAPLUS
(15) Ross, B; Nucleosides and Nucleotides 1997, V16, P1641 HCAPLUS
(16) Sproat, B; Methods in Molecular Biology Protocols for Oligonucleotides and Analogs 1993, V20, P115 HCAPLUS
(17) Verheyden, J; J Org Chem 1971, V36, P250 MEDLINE
(18) Zon, G; Oligonucleotides and Analogues A Practical Approach 1991, P87 HCAPLUS

IT **58-96-8**, Uridine
RL: RCT (Reactant); RACT (Reactant or reagent)
(conversion of uridine into methoxyethyluridine and methoxyethylcytidine)

RN 58-96-8 HCAPLUS
CN Uridine (8CI, 9CI) (CA INDEX NAME)

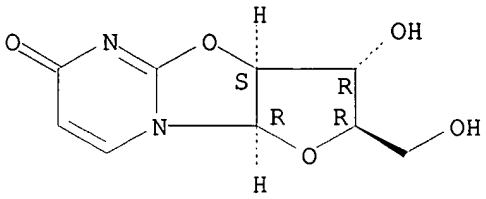
Absolute stereochemistry.



IT **3736-77-4P 223777-15-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(conversion of uridine into methoxyethyluridine and methoxyethylcytidine)

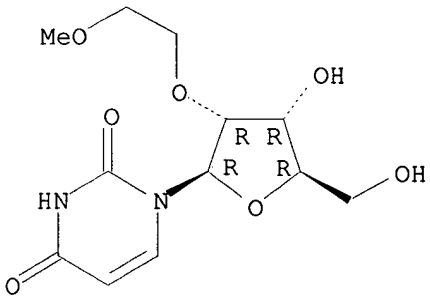
RN 3736-77-4 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



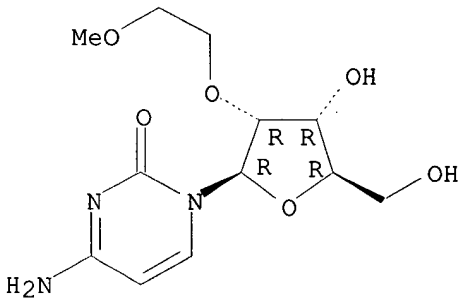
RN 223777-15-9 HCAPLUS
CN Uridine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **223777-16-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(conversion of uridine into methoxyethyluridine and methoxyethylcytidine)
RN 223777-16-0 HCAPLUS
CN Cytidine, 2'-O-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L101 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2003 ACS
AN 1996:205035 HCAPLUS
DN 124:261622
TI Preparation of known and novel 2'-modified nucleosides by intramolecular nucleophilic displacement of anhydronucleosides.
IN McGee, Danny P. C.; Pieken, Wolfgang A.; Sebesta, David P.; Zhai, Yansheng
PA Nexstar Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 73 pp.
CODEN: PIXXD2
DT Patent
LA English

IC ICM A61K031-00
ICS C07H001-00; C07H019-00; C07H021-00
CC 33-9 (Carbohydrates)
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9535102	A1	19951228	WO 1995-US6641	19950525
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT; LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2192950	AA	19951228	CA 1995-2192950	19950525
	AU 9526496	A1	19960115	AU 1995-26496	19950525
	AU 710074	B2	19990916		
	EP 767657	A1	19970416	EP 1995-921408	19950525
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 10501809	T2	19980217	JP 1995-502200	19950525
	US 6090932	A	20000718	US 1996-732283	19961030
PRAI	US 1994-264029	A	19940622		
	WO 1995-US6641	W	19950525		

OS MARPAT 124:261622
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 2'-Modified nucleosides were prepd. by (1) performing an intramol. nucleophilic reaction on an intermediate [I; B = nucleobase; W = O, S, C(R2)2, NR2, PR2, POR2; X = O, S, NH, NR4; Y = metal, C, Si, Se, S, B, **Al**, Sn, P; Z = imidazolyl, Cl, F, H, 2H, 3H, OH, NHOR1, NHOR5, NHNHR5, NHR5, :NH, CHCN, CHCl2, SH, SR5, CHF2, CF2H, OR4, etc.; R1 = H, protecting group; R2 = O, S, H, OH, CCl3, CF3, halo, (substituted) alkyl, alkenyl, aryl, acyl, PhCO, OR4, esters; R3 = O, S, OH, H, CCl3, halo, alkyl, alkenyl, aryl, PhCO, esters, OR4, null, cyclopentadienyl, cyclooctadienyl, CO, trialkylphosphine if Y = metal; R4 = (substituted) alkenyl, alkynyl, aryl, heterocyclyl, nucleoside , carbohydrate, fluorescent label, phosphate residue; R5 = R2, R4, CN, CONH2, CSNH2, SO2R4, amino acid, peptide residues and mixts. thereof], and (2) isolating the product. Thus, 5'-dimethoxytrityl-2,2'-anhydrouridine (II) was heated with Cl3CCN and NaH at 90.degree. for 16 h to give oxazoline deriv. (III), which was stirred with 80% aq. HOAc to give aminoalc. (IV).

ST nucleoside prepn; anhydronucleoside nucleophilic displacement reaction

IT Nucleosides, preparation
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT Nucleosides, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(anhydro, prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT Nucleotides, preparation
RL: PNU (Preparation, unclassified); PREP (Preparation)
(oligo-, prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT 174221-82-0P **175013-47-5P** 175013-58-8P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT 23669-79-6P 26889-39-4P **35837-20-8P 103285-22-9P 143463-62-1P 160527-06-0P 174221-81-9P** 174221-86-4P 175013-48-6P 175013-49-7P 175013-50-0P 175013-52-2P 175013-53-3P 175013-61-3P 175013-63-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT 107-18-6, Allyl alcohol, reactions 109-88-6, Magnesium methoxide **3736-77-4** 35754-82-6, Magnesium propoxide
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

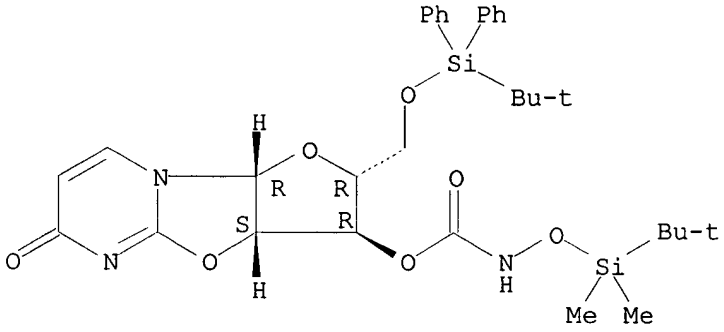
IT 957-75-5P 7789-78-8P, Calcium hydride **173170-12-2P 175013-46-4P 175013-51-1P** 175013-54-4P **175013-57-7P 175013-60-2P 175013-62-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT **175013-55-5P 175013-56-6P** 175013-59-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

IT **175013-47-5P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

RN 175013-47-5 HCAPLUS
CN Carbamic acid, [[(1,1-dimethylethyl)dimethylsilyl]oxy]-, (2R,3R,3aS,9aR)-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

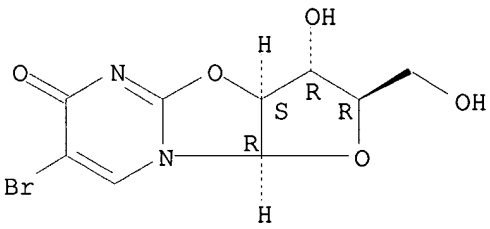
Absolute stereochemistry.



IT **35837-20-8P 103285-22-9P 143463-62-1P 160527-06-0P 174221-81-9P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

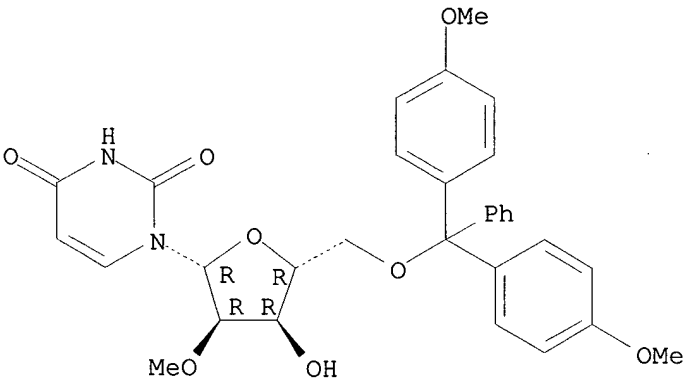
RN 35837-20-8 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 7-bromo-2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



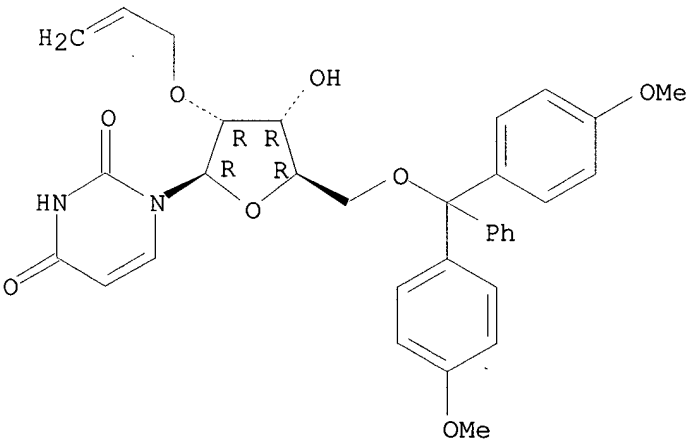
RN 103285-22-9 HCAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



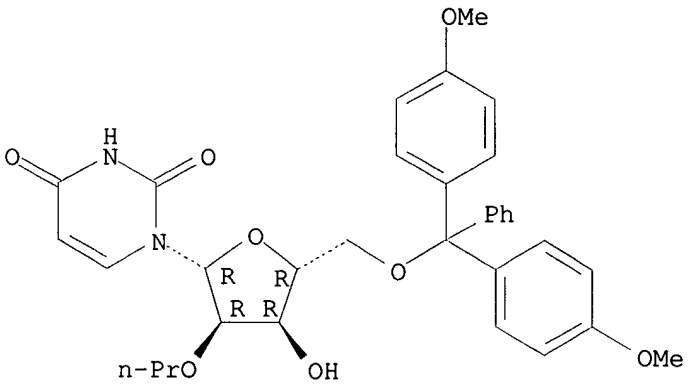
RN 143463-62-1 HCAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-2-propenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



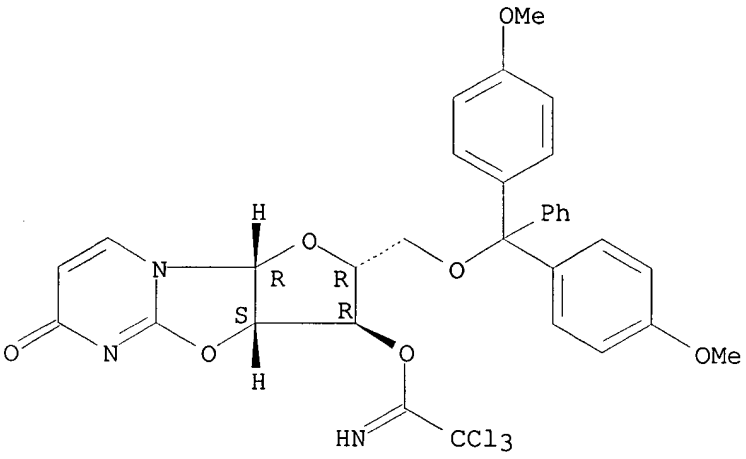
RN 160527-06-0 HCAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-propyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



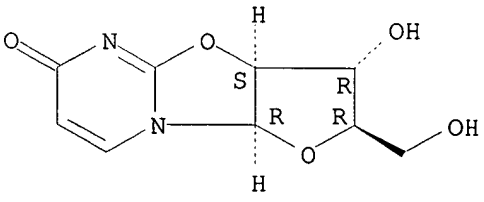
RN 174221-81-9 HCAPLUS
CN Ethanimidic acid, 2,2,2-trichloro-, (2R,3R,3aS,9aR)-2-[[bis(4-methoxyphenyl)phenylmethoxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **3736-77-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)
RN 3736-77-4 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

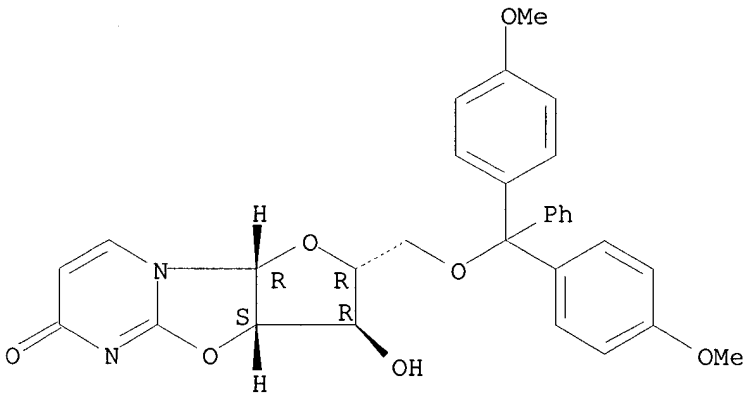


IT **173170-12-2P 175013-46-4P 175013-51-1P**

175013-57-7P 175013-60-2P 175013-62-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)

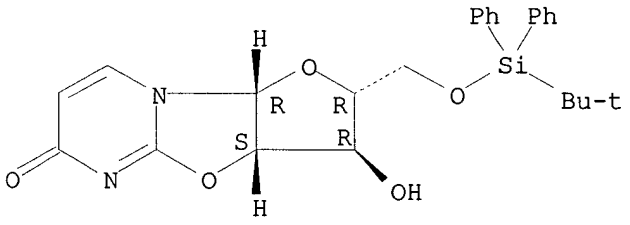
RN 173170-12-2 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2-[[bis(4-methoxyphenyl)phenylmethoxy]methyl]-2,3,3a,9a-tetrahydro-3-hydroxy-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



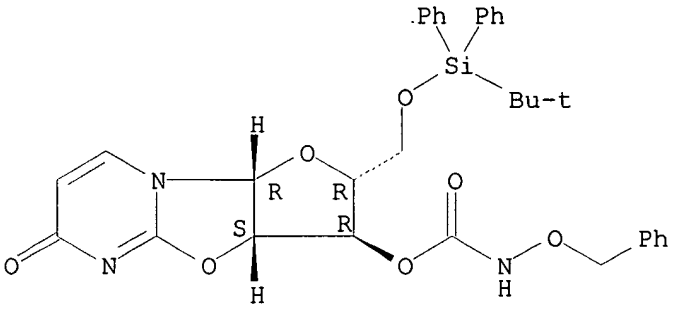
RN 175013-46-4 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-3-hydroxy-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



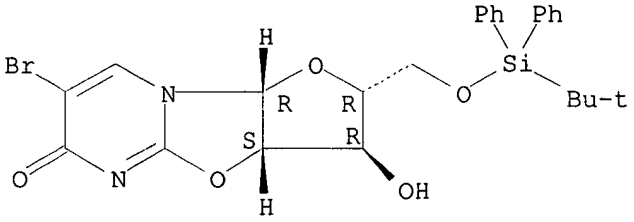
RN 175013-51-1 HCAPLUS
CN Carbamic acid, (phenylmethoxy)-, (2R,3R,3aS,9aR)-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



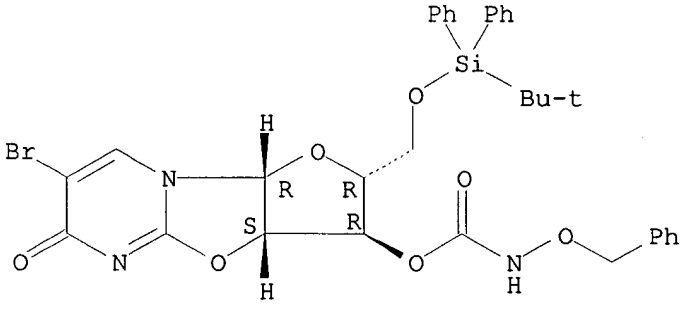
RN 175013-57-7 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 7-bromo-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-3-hydroxy-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



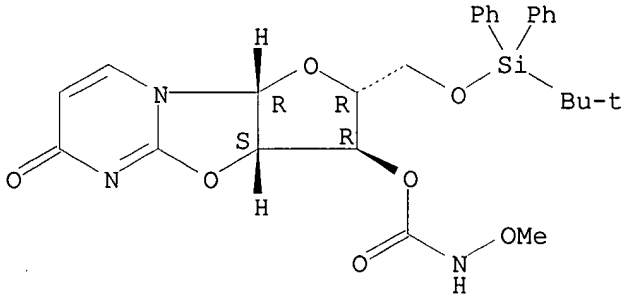
RN 175013-60-2 HCAPLUS
CN Carbamic acid, (phenylmethoxy)-, (2R,3R,3aS,9aR)-7-bromo-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



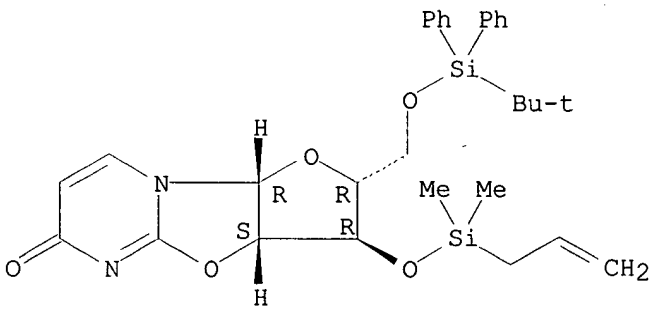
RN 175013-62-4 HCAPLUS
CN Carbamic acid, methoxy-, (2R,3R,3aS,9aR)-2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-6-oxo-6H-furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-3-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



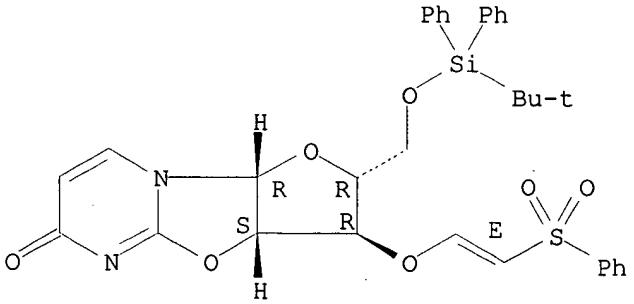
IT **175013-55-5P 175013-56-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of known and novel 2'-modified nucleosides by intramol. nucleophilic displacement)
RN 175013-55-5 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-3-[(dimethyl-2-propenylsilyl)oxy]-2,3,3a,9a-tetrahydro-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 175013-56-6 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-2,3,3a,9a-tetrahydro-3-[[(1E)-2-(phenylsulfonyl)ethenyl]oxy]-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



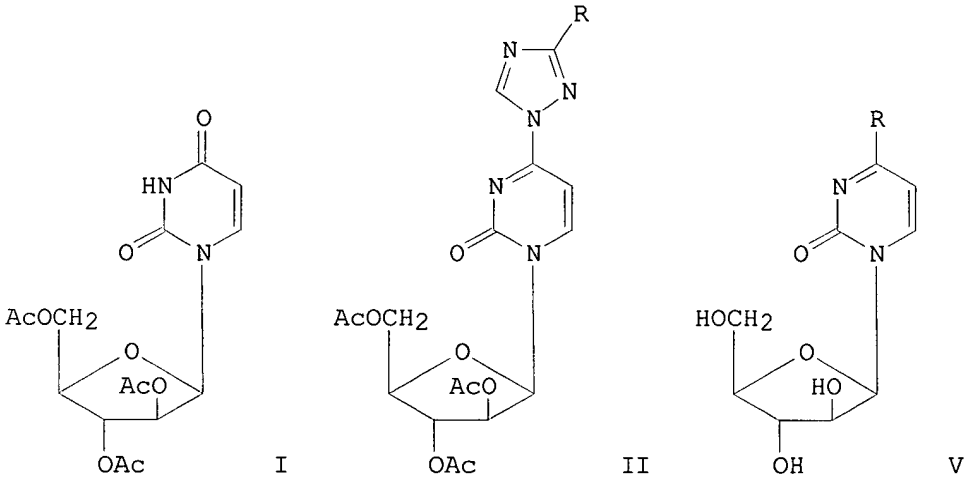
L101 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS
AN 1982:510325 HCAPLUS
DN 97:110325

TI 4-(1,2,4-Triazol-1-yl)- and 4-(3-nitro-1,2,4-triazol-1-yl)-1-(.beta.-D-2,3,5-tri-O-acetylarabinofuranosyl)pyrimidin-2(1H)-ones. Valuable intermediates in the synthesis of derivatives of 1-(.beta.-D-arabinofuranosyl)cytosine (ara-C)

AU Divakar, K. J.; **Reese, Colin B.**
CS Dep. Chem., King's Coll., London, WC2R 2LS, UK

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1982), (5), 1171-6
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
CC 33-9 (Carbohydrates)
Section cross-reference(s): 23, 25, 28

GI



AB Condensation reactions of triacetylarabinofuranosyluracil (I), prepd. in 3 steps from uracil, with tri(1H-1,2,4-triazol-1-yl)phosphine oxide and with 3-nitro-1,2,4-triazole and (PhO)2POCl gave the title compds. II (R = H, NO2) (III and IV, resp.). Substitution reactions of III with RH (R = NH2, NHMe, NMe2, morpholino, PhNH, p-MeC6H4S) gave the corresponding arabinofuranosylcytosines V in high yield. Substitution of IV with PhNH2 and with H2NCH2CO2Me gave V (R = PhNH, NHCH2CO2Me, resp.).

ST arabinofuranosyluracil prepn condensation triazole; triazolylarabinofuranosylpyrimidinone prepn substitution; cytosine arabinofuranosyl

IT Nucleosides, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(arabinofuranosylcytosines, prepn. of, by substitution reactions of triazolyl(triacetylarabinofuranosyl)pyrimidinones with amines)

IT Substitution reaction, nucleophilic
(of triazolyl(triacetylarabinofuranosyl)pyrimidinones, with amines and with toluenethiol)

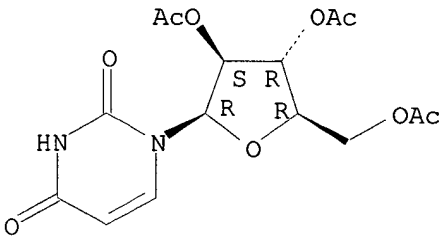
IT 24807-55-4 72741-18-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation reaction of, with (triacetylarabinofuranosyl)uracil)

IT 66-22-8, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, intramol.)

IT 3083-77-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and acetylation of)

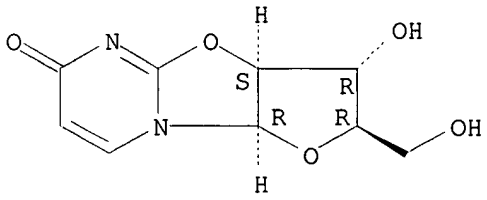
IT **14057-18-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and condensation reactions of, with tritriazolylphosphine oxide and nitrotriazole)
IT **3736-77-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrolysis of)
IT **82855-62-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and substitution reactions of, with amines and with toluenethiol)
IT **82855-63-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and substitution reactions of, with aniline and with glycine Me ester)
IT 147-94-4P 13491-42-4P 82855-64-9P 82855-65-0P 82855-66-1P 82855-67-2P 82855-68-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
IT 74-89-5, reactions 106-45-6 110-91-8, reactions 124-40-3, reactions 616-34-2 7664-41-7, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reaction of, with triazolyl[triacetylarabinofuranosyl)pyrimidinone)
IT 62-53-3, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reactions of, with triazolyl(triacetylarabinofuranosyl)pyrimidinones)
IT **14057-18-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and condensation reactions of, with tritriazolylphosphine oxide and nitrotriazole)
RN 14057-18-2 HCAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(2,3,5-tri-O-acetyl-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



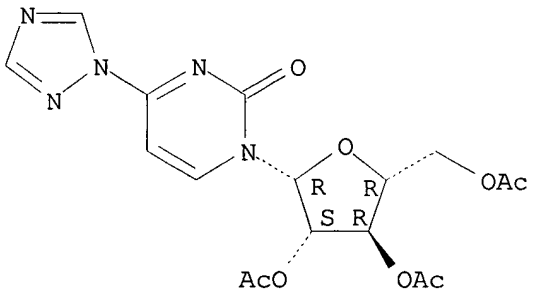
IT **3736-77-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrolysis of)
RN 3736-77-4 HCAPLUS
CN 6H-Furo[2',3':4,5]oxazolo[3,2-a]pyrimidin-6-one, 2,3,3a,9a-tetrahydro-3-hydroxy-2-(hydroxymethyl)-, (2R,3R,3aS,9aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **82855-62-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and substitution reactions of, with amines and with toluenethiol)
RN 82855-62-7 HCAPLUS
CN 2(1H)-Pyrimidinone, 1-(2,3,5-tri-O-acetyl-.beta.-D-arabinofuranosyl)-4-(1H-1,2,4-triazol-1-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **82855-63-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and substitution reactions of, with aniline and with glycine Me ester)
RN 82855-63-8 HCAPLUS
CN 2(1H)-Pyrimidinone, 4-(3-nitro-1H-1,2,4-triazol-1-yl)-1-(2,3,5-tri-O-acetyl-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.